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Abstract:

The invention relates to a process and a device for the rapid liquid-chromatographic separation of mixtures of substances and identification of substances.

The invention is based on the object of providing a device and a process for the liquid-chromatographic separation, isolation and identification of substances in an analytical and semi-preparative range, by means of which testing for activity of mixtures of substances is rendered unnecessary, and which enable separating mixtures of substances and isolating and identifying the individual substances more rapidly than is possible up to now.

Said object is accomplished by means of a process and device, wherein mixtures of substances are pre-separated in the first stage of a software-controlled rapid liquid-chromatographic two-stage separation, the pre-separated fractions deposited in collecting columns are subjected to a parallel fine separation in at least two separation lines in the second stage, and the finely separated fractions are identified and isolated in parallel operations each time (Fig. 1).